# *Movement towards net-centricity*

Kevin Meiners

**Office of the Undersecretary of Defense for Intelligence**

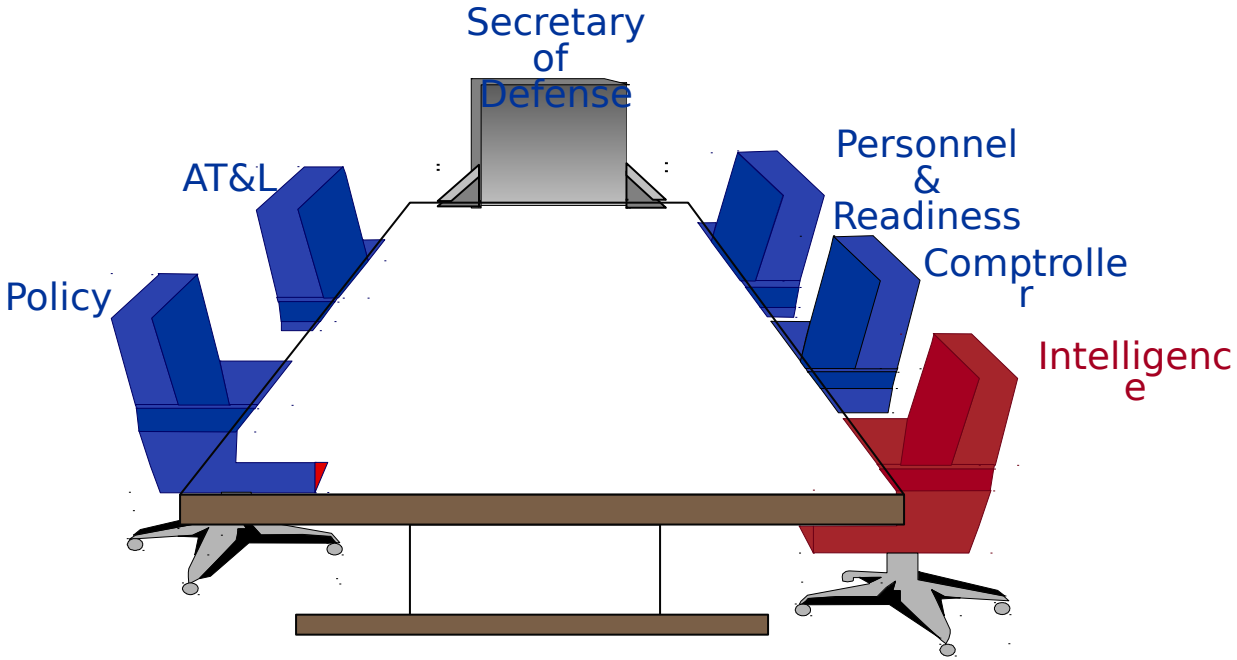
Presented To the Interoperability and Systems Integration Conference

March 23, 2004

# Agenda

- **USD(I) Organization**
- **Distributed Common Ground/Surface System**
- **Current OSD Activities**
- **DCGS Interoperability Challenges**

# Intelligence Reorganization




- **Originally 4 Under Secretaries of Defense (USDs)**
- **Created new Under Secretary position for Intelligence – USD(I)**
- **All Defense Intelligence pieces beneath one Under Secretary**

# Office of the Under Secretary of Defense for Intelligence

## *OUSD (I)*

**USD(I)**
**Dr. Stephen Cambone**

**DUSD**
***Intel & Warfighting Support***
**LTG Boykin**

**DUSD**
***Counterintelligence & Security***
**Carol Haave**

**DUSD**
***Preparation & Warning***
**Tom Behling**

**DUSD**
***Policy, Requirements & Resources***
**Tish Long**

# Office of the Under Secretary of Defense for Intelligence

**DUSD**
***Intel & Warfighting Support***
**LTG Boykin**

- **Look at issues in support of the Warfighter**

**DUSD**
***Counterintelligence & Security***
**Carol Haave**

- **Focus more attention on Counter Intelligence Capabilities**
- **Violations and security issues**

**DUSD**
***Preparation & Warning***
**Tom Behling**

- **Responsible for looking 10 to 12 years ahead**
- **Focus on technologies related to Warning and Preparation**

**DUSD**
***Policy, Requirements & Resources***
**Tish Long**

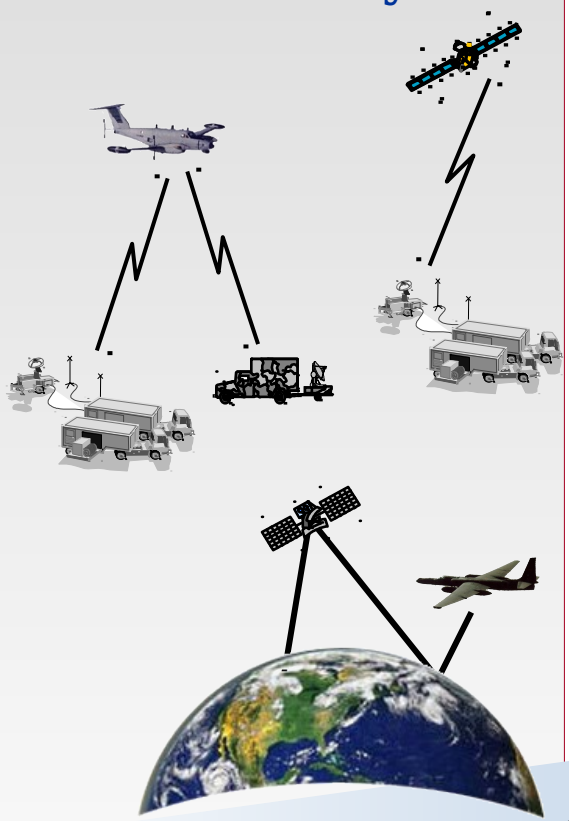
- **Identify where we are spending our money for near-term needs**
- **And the investment we'll need to realize our future capabilities**
- **Overall Intelligence**

# Agenda

- USD(I) Organization
- **Distributed Common Ground/Surface System**
- Current OSD Activities
- DCGS Interoperability Challenges

# DCGS Roadmap to Interoperability

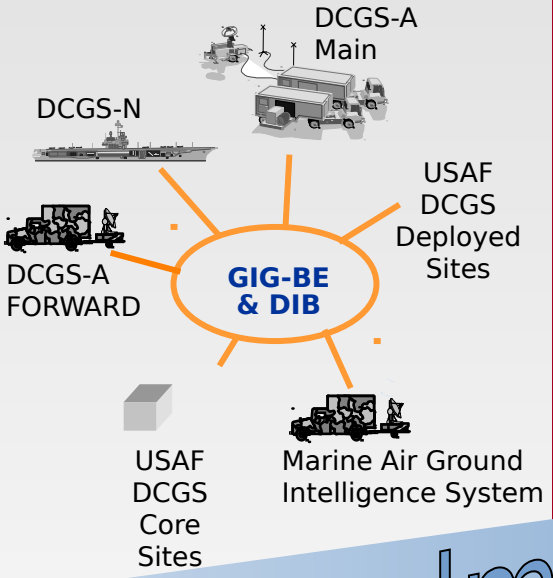
## DCGS today



**1990's-2003**

***"AS IS"***

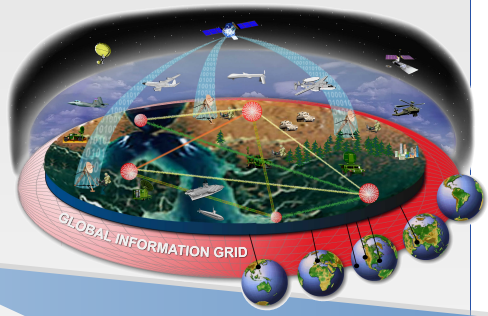
## Distributed Common Ground/Surface Systems




**2005**

***Transition***

## "Net-Centric" Common Ground Systems

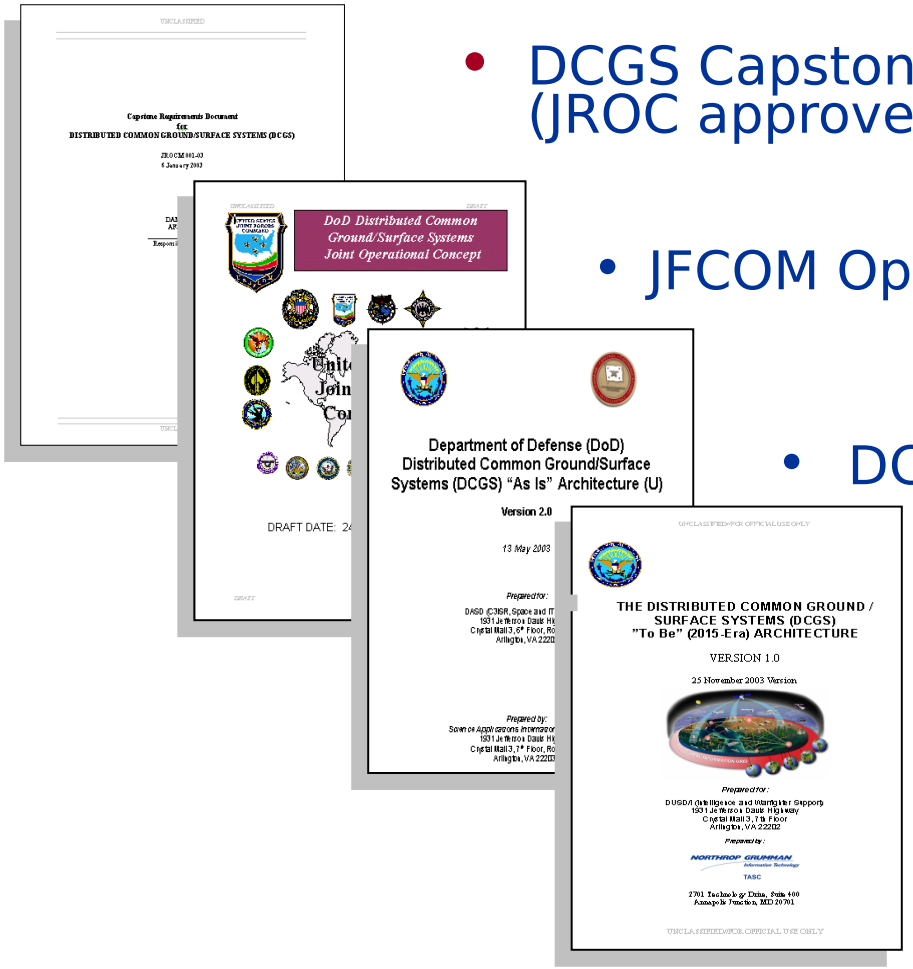



**2008 - 2015**

***"TO BE"***

DCGS Roadmap

# Guiding documents



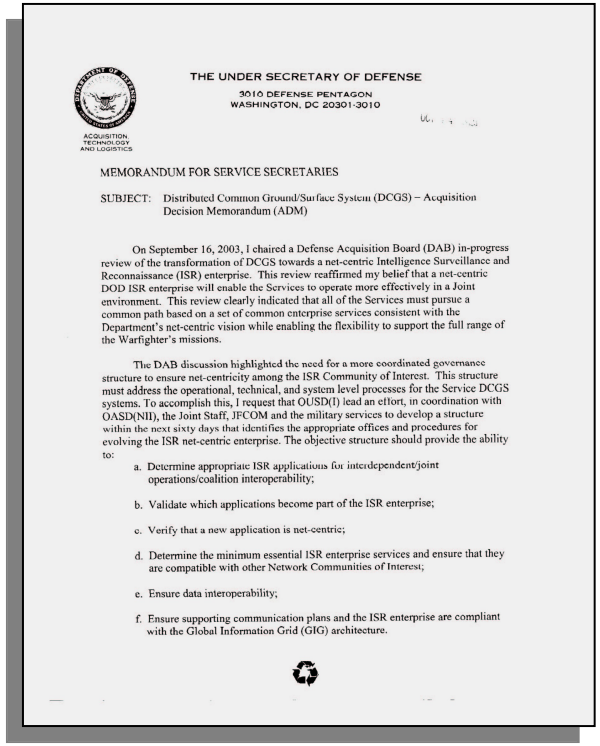

- DCGS Capstone Requirements Document (JROC approved Jan 2003)
- JFCOM Operation Concept
- DCGS As Is Architecture
- DCGS To Be Architecture

**Last 3 in Joint Staff Coordination**

# Recent DCGS Interoperability Memorandum

## "DCGS Acquisition Decision Memorandum"

- Crystallized on Interoperability at the Data Layer
- Defense Acquisition Executive authorized Air Force to proceed with DCGS 10.2 including DCGS Integration Backbone (DIB)
- All Services will use the DIB to achieve Net Centricity



THE UNDER SECRETARY OF DEFENSE
3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

ACQUISITION, TECHNOLOGY AND LOGISTICS

MEMORANDUM FOR SERVICE SECRETARIES

SUBJECT: Distributed Common Ground/Surface System (DCGS) – Acquisition Decision Memorandum (ADM)

On September 16, 2003, I chaired a Defense Acquisition Board (DAB) in-progress review of the transformation of DCGS towards a net-centric Intelligence Surveillance and Reconnaissance (ISR) enterprise. This review reaffirmed my belief that a net-centric DOD ISR enterprise will enable the Services to operate more effectively in a Joint environment. This review clearly indicated that all of the Services must pursue a common path based on a set of common enterprise services consistent with the Department's net-centric vision while enabling the flexibility to support the full range of the Warfighter's missions.

The DAB discussion highlighted the need for a more coordinated governance structure to ensure net-centricity among the ISR Community of Interest. This structure must address the operational, technical, and system level processes for the Service DCGS systems. To accomplish this, I request that OUSD(I) lead an effort, in coordination with OASD(NII), the Joint Staff, JFCOM and the military services to develop a structure within the next sixty days that identifies the appropriate offices and procedures for evolving the ISR net-centric enterprise. The objective structure should provide the ability to:

a. Determine appropriate ISR applications for interdependent/joint operations/coalition interoperability;

b. Validate which applications become part of the ISR enterprise;

c. Verify that a new application is net-centric;

d. Determine the minimum essential ISR enterprise services and ensure that they are compatible with other Network Communities of Interest;

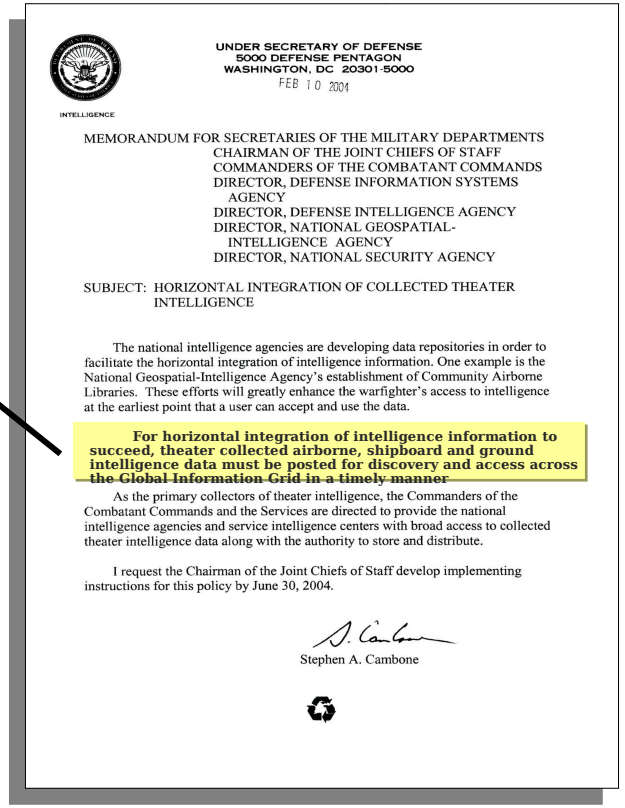
e. Ensure data interoperability;

f. Ensure supporting communication plans and the ISR enterprise are compliant with the Global Information Grid (GIG) architecture.

# Recent Interoperability Policy Decision

## "Horizontal Integration of Collected Theater Intel"

- USD(I) Policy - 10 Feb 04
- "For horizontal integration of intelligence information to succeed, theater collected airborne, shipboard and ground intelligence data must be posted for discovery and access across the Global Information Grid in a timely manner"
- Joint Staff Implementation Instructions to be published by 30 Jun 04



UNDER SECRETARY OF DEFENSE
5000 DEFENSE PENTAGON
WASHINGTON, DC 20301-5000

FEB 10 2004

INTELLIGENCE

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
COMMANDERS OF THE COMBATANT COMMANDS
DIRECTOR, DEFENSE INFORMATION SYSTEMS AGENCY
DIRECTOR, DEFENSE INTELLIGENCE AGENCY
DIRECTOR, NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
DIRECTOR, NATIONAL SECURITY AGENCY

SUBJECT: HORIZONTAL INTEGRATION OF COLLECTED THEATER INTELLIGENCE

The national intelligence agencies are developing data repositories in order to facilitate the horizontal integration of intelligence information. One example is the National Geospatial-Intelligence Agency's establishment of Community Airborne Libraries. These efforts will greatly enhance the warfighter's access to intelligence at the earliest point that a user can accept and use the data.

**For horizontal integration of intelligence information to succeed, theater collected airborne, shipboard and ground intelligence data must be posted for discovery and access across the Global Information Grid in a timely manner**

As the primary collectors of theater intelligence, the Commanders of the Combatant Commands and the Services are directed to provide the national intelligence agencies and service intelligence centers with broad access to collected theater intelligence data along with the authority to store and distribute.

I request the Chairman of the Joint Chiefs of Staff develop implementing instructions for this policy by June 30, 2004.

Stephen A. Cambone

# Agenda

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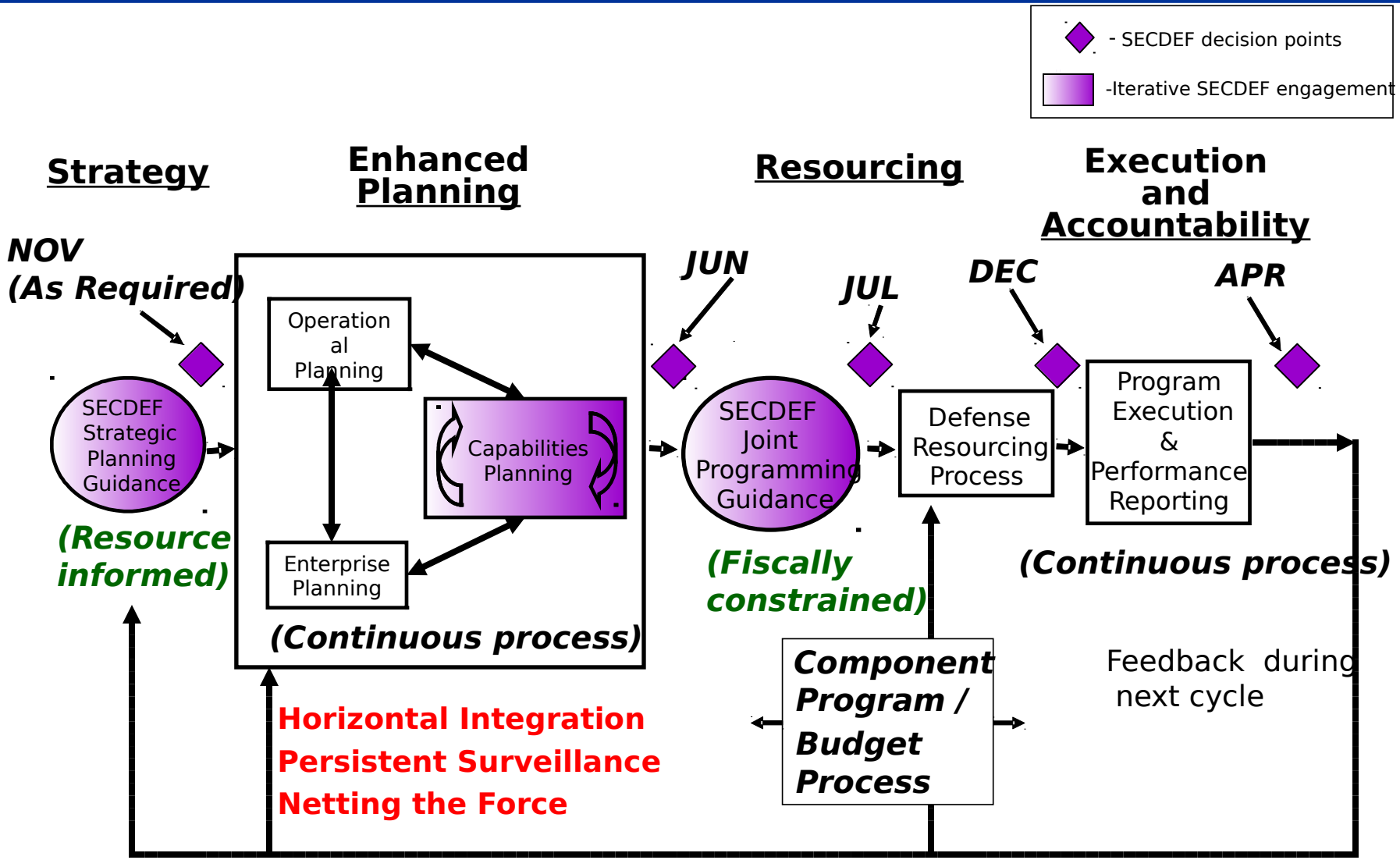
- **Current OSD Activities**
- DCGS Interoperability Challenges

# Enhanced Planning



# ISR Integration

- **Congressionally Directed Action**
  - ISR Integration Council
  - ISR Integration Roadmap
- **First ISR Interaction Council Scheduled for 26 March 04**
- **ISR Integration Roadmap**
  - Define Fundamental ISR Goals
  - Layout overall Departmental Approach
  - Investment Strategy

**Soliciting Industry View Points**

# Net-Centric Program Reviews

**BIN 1** New Start/In Development: Programs are born net-centric and meet Domain requirements. They exhibit all the capabilities needed to ensure compliance with DoD net-centric Domain models and regulations. These programs will be fully funded for RDT&E and follow-on O&M.

**2** Legacy being Transformed (Refreshed): Current programs that have an approved plan to comply with net-centric capabilities and Domain requirements of the Department. These programs will be fully funded for O&M and required RDT&E funds to successfully accomplish their net-centric and Domain transformation plan.

**3** Legacy being Sustained (Retain): Current programs that do not exhibit net-centric capabilities and are not planned for transformation, but are essential for current operations and business process needs of the department. They will receive reduced funding for O&M with no RDT&E funding approved for enhancements or modifications. Requires and annual review of the program and a waiver for continued O&M funding.

**4** Non-Compliant (Retire): Programs that do not exhibit net-centric capabilities, are not deemed essential for continued operations or business processes of the Department, and will be planned for termination. They will receive no RDT&E funding and significantly reduced funding for O&M to bring the program to closure/termination.

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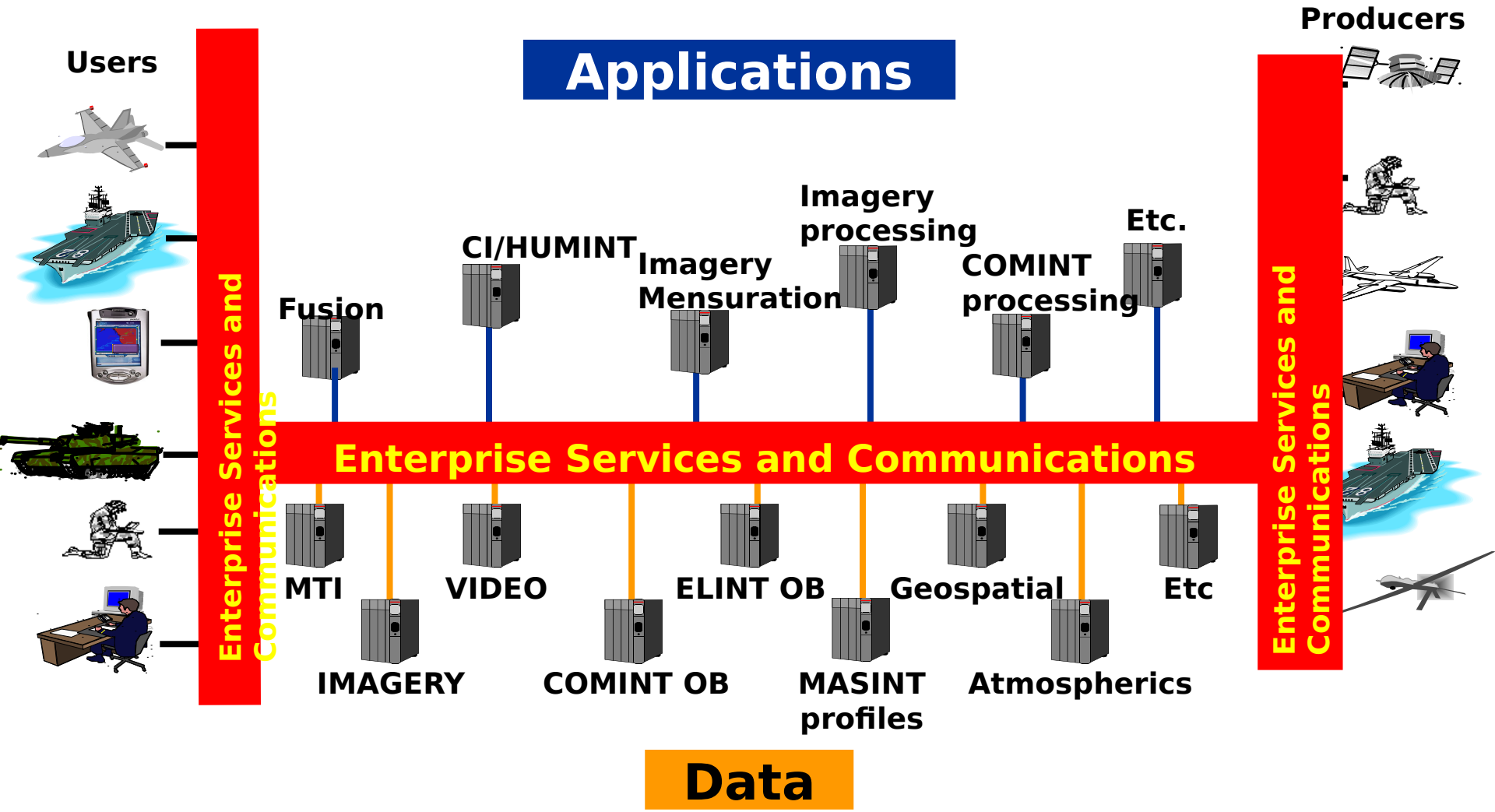
# SIGINT Data Interoperability

- **As we move toward Data Repositories there is a need for SIGINT Data Standards**

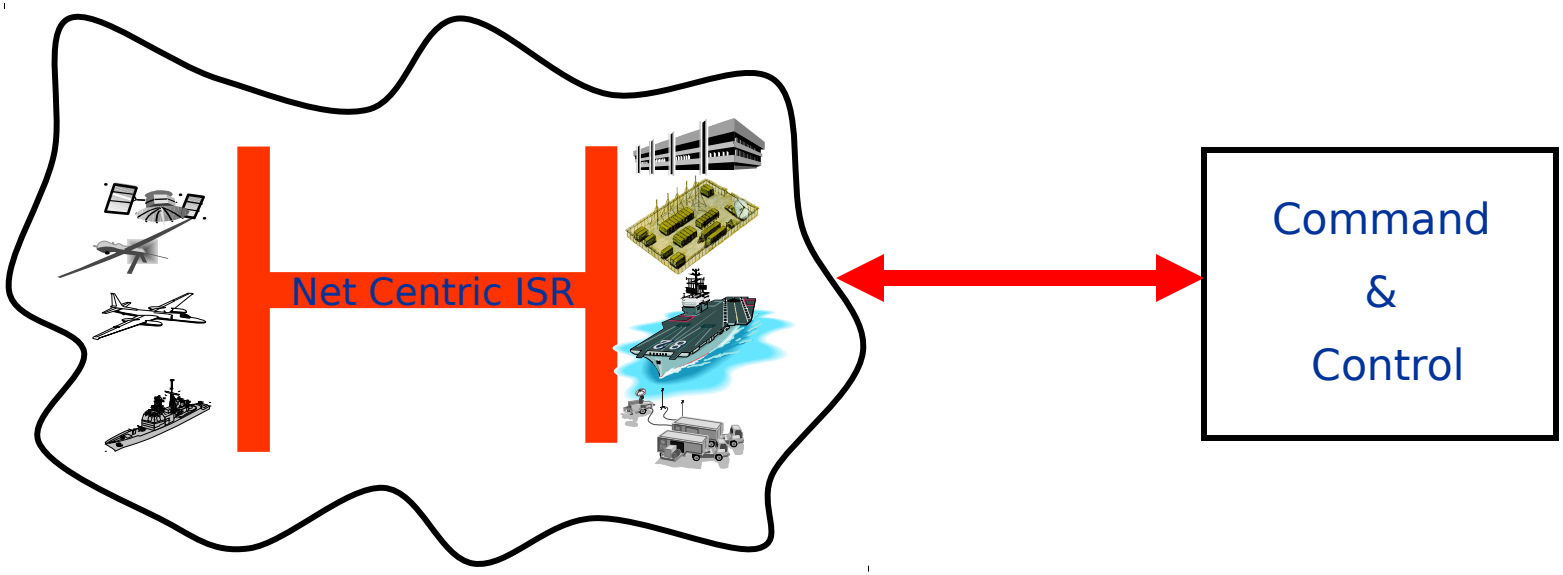
| Imagery | SIGINT |
| --- | --- |
| • NITF 2.1<br>• MPEG 2000<br>• NATO STANAG 4607 | • NSTF? |

# SIGINT Data Interoperability

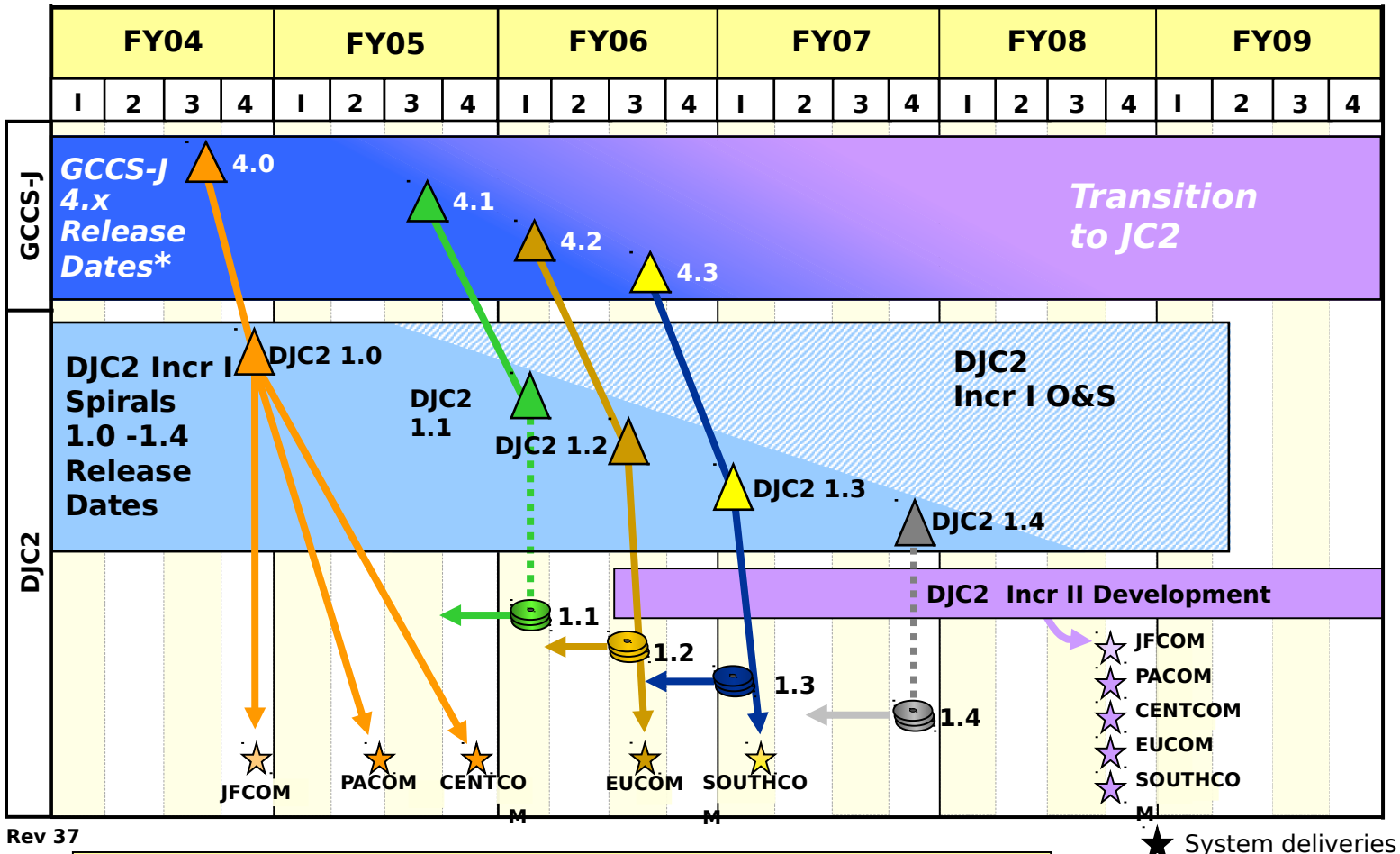



**Interoperability At The Data Layer Is Essential**

# ISR and C2 Interoperability



# ISR and C2 Interoperability




* Source: GCCS-J Acquisition Program Baseline for BLK V



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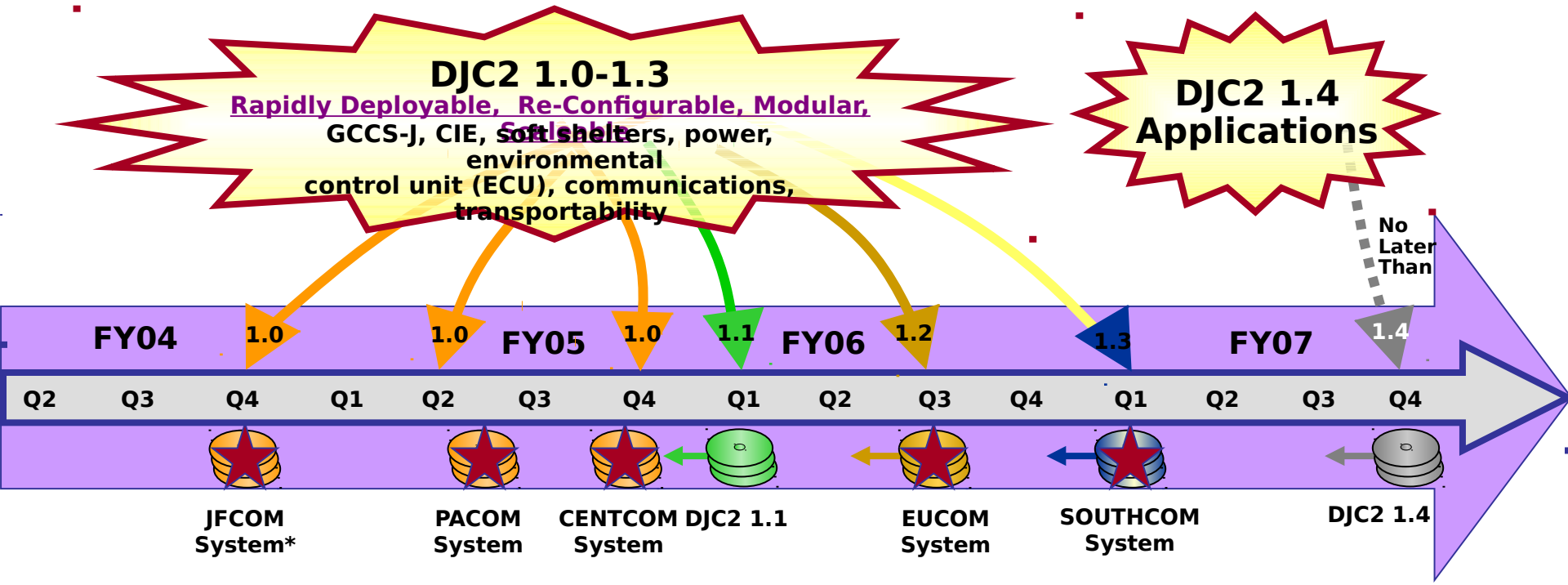
# ISR Requirements within DJC2




**DJC2 1.0**
- Complete deployability package*
- Reduced deployment time
- C2 on the move
- Decreased forward C2 footprint
- Collaboration tools with reachback
- Improved intel integration
- Enhanced UDOP mgmt
- Force protection tools

**DJC2 1.1**
- Increased intelligence
- Increased force projection
- Enhanced in-transit asset visibility
- Automated reporting
- Weather data integration
- Logistics status reporting

**DJC2 1.2**
- Enhanced intel coll mgmt
- Increased situational Awareness
- COTS tech refresh
- Improved LOG/OPS planning
- Freq mgmt tools

**DJC2 1.3**
- Enhanced intelligence
- Robust data transfer
- Improved LOG/PERS asset visibility
- IO/IW graphic display
- Web-based UDOP upgrade
- Expanded JOPES data integration

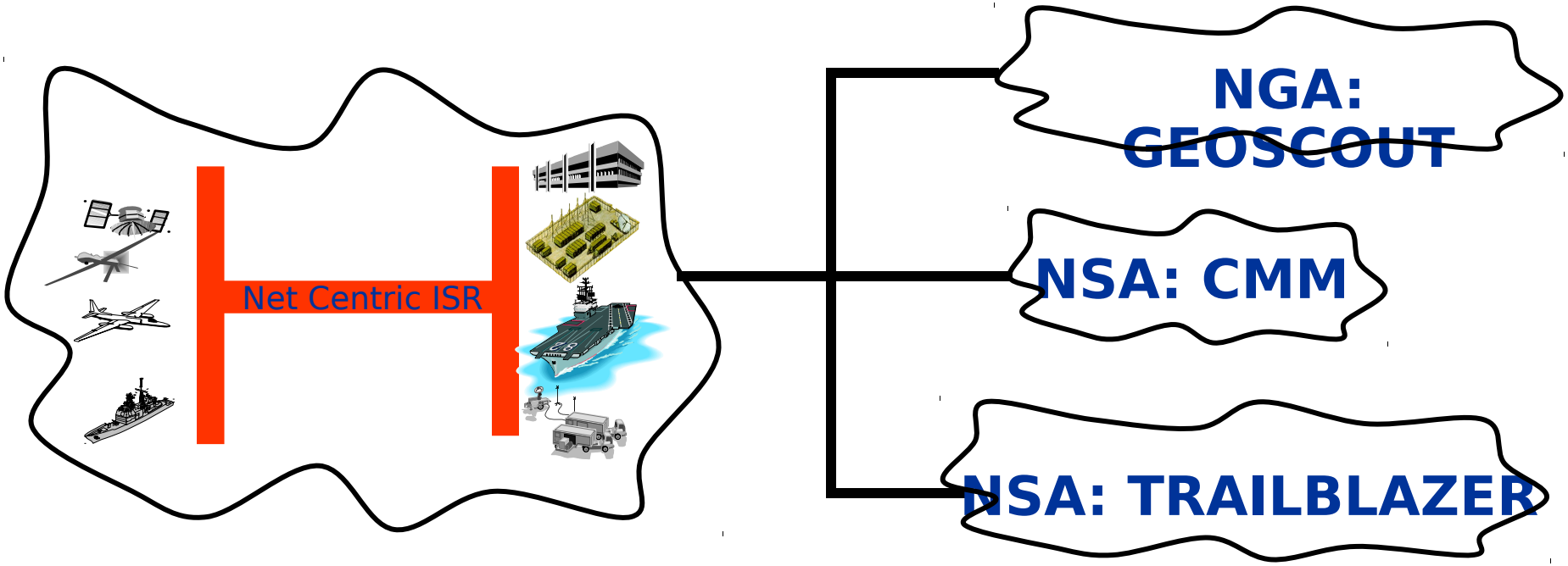
**DJC2 1.4**
- Increased force projection
- Increased Force Employment
  - Air and space operations
  - Joint fires and maneuver
- Improved air/missile defense integration
- 4-D visualization of OPS/intel data
- MOD/SIM rehearsal tools

System deliveries

Software to fielded RCC deployability items

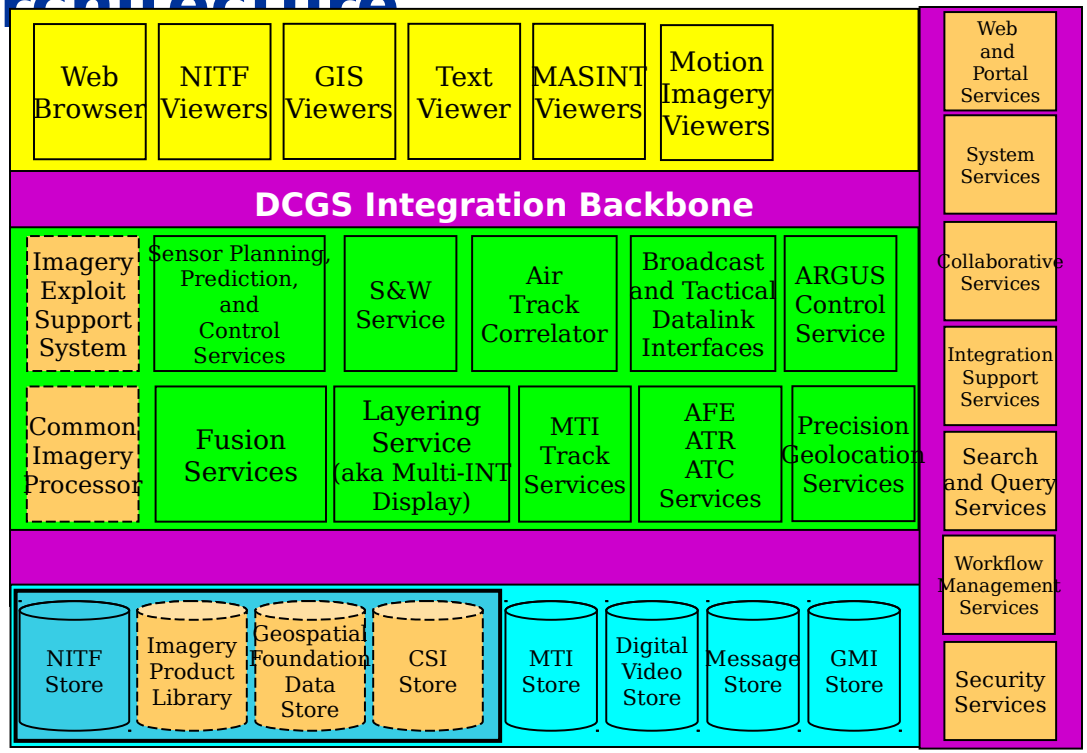
* JFCOM System will consist of 60 workstations with no

# DCGS Interoperability with National Agency Systems



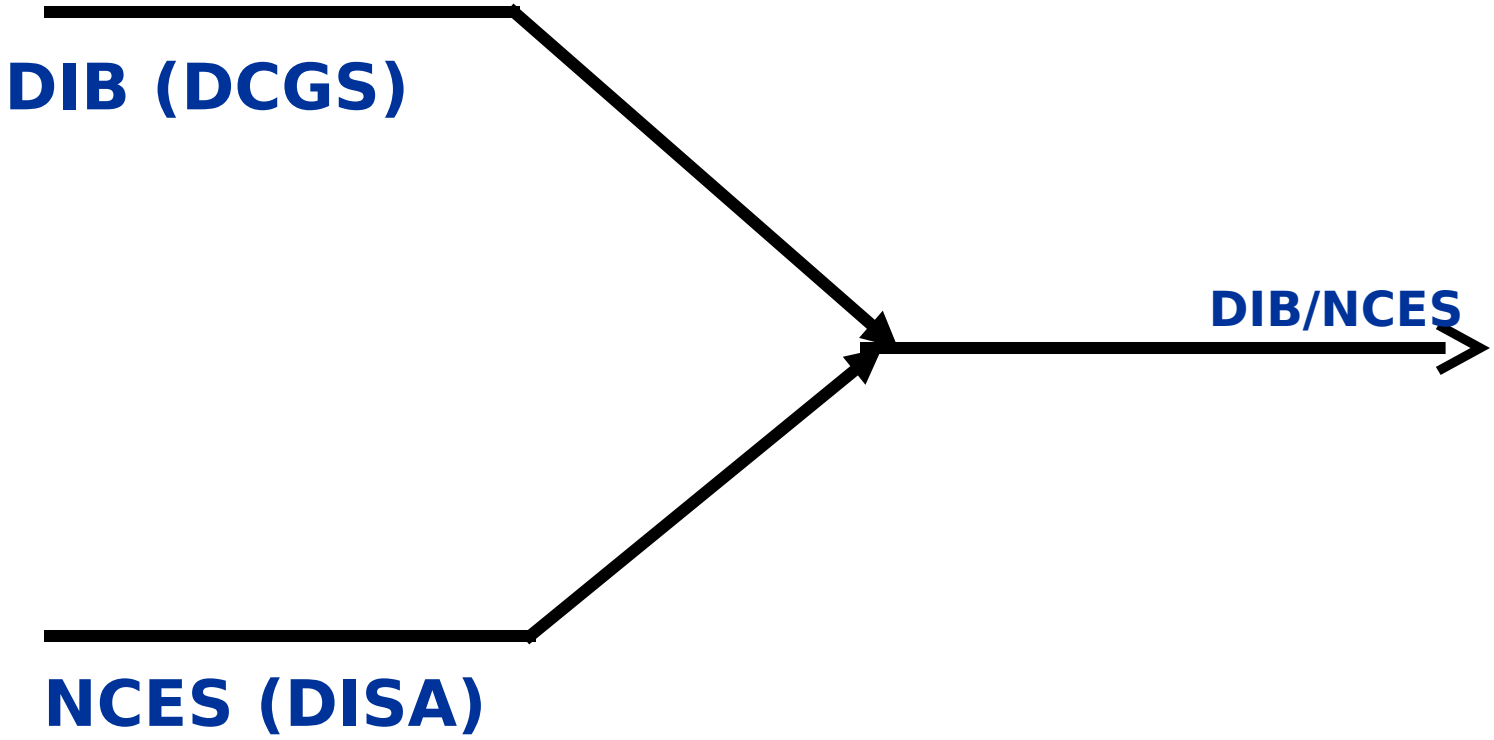
# Determining Common Applications

- **Services Converge on DIB architecture**




**DCGS Multi-Service Execution Team determines possible Service-Lead for Application Development**

# Migration to Common Enterprise Services



# SUMMARY

- **Current OSD strategy is based on data interoperability; common applications only as necessary**
- **DCGS Integration Backbone (DIB) and Net-Centric Enterprise Services are key enablers to achieving data interoperability**
- **Five DCGS Interoperability "Focus Areas"**